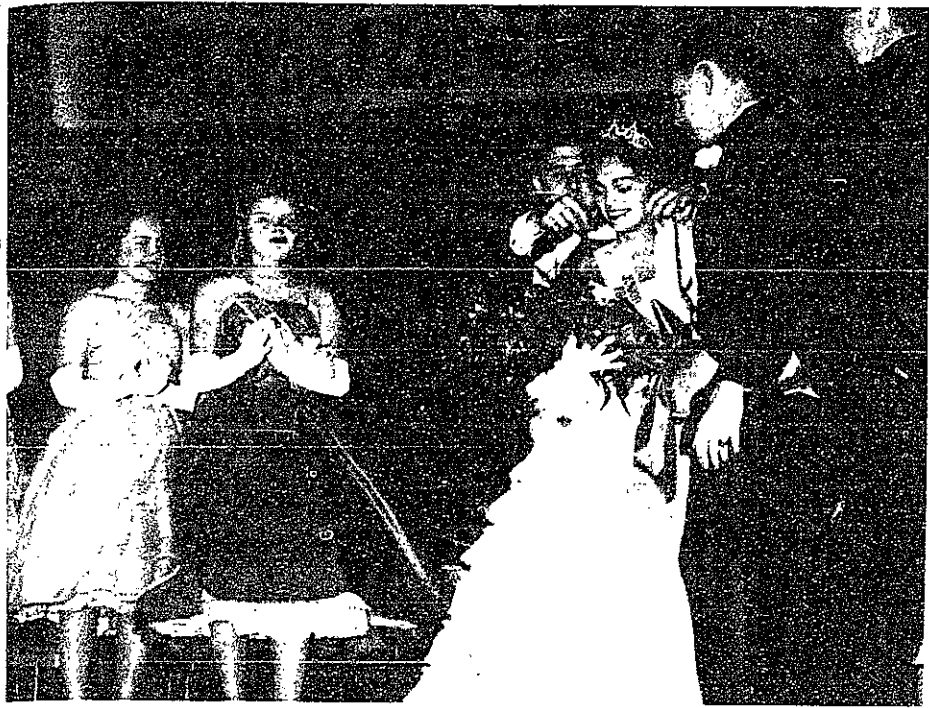


Frosh Wallop Sophs With a 45-15 Field Day Walkaway; James, Basie Play Well-Attended Junior Prom Weekend



The newly-chosen Junior Prom Queen, Miss Beth Strong, receives her crown and robe, as two of the Princesses look on. Two eager-beavers in the foreground are wasting no time cutting in.

1150 Pack Statler Ballroom; See Beth Strong Crowned JP Queen

"That old JP spirit" permeated the air at Hotel Statler's Grand Ballroom Friday evening, as 1150 Techmen and their dates assembled—crimson and grey dauschundts in hand—to drink, make merry, enjoy the music of Harry James, and see Miss Beth Strong crowned JP Queen.

Muted Trumpet Solos

Harry James and his "Rhythmen Masters" furnished the evening with musical entertainment from 8:30 till 1:00. Notably lacking were the James' solos of yore. The master chose, instead, to remain in the background, relying on muted trumpet solos as his share in the instrumental work.

Midway through the evening, MC's Mark Dichter, Pi Lambda Phi, Junior Class president, and Don deReynier, Phi Gamma Delta, stepped on stage for some impromptu inebriate clowning, and, eventually, to introduce the "Exponentials", alias MIT "Logary-chens."

Later, as the five queen finalists were introduced, the crowd applauded at the spontaneous appearance of mystery candidate No. 69, Miss Luscious Frelove, who made a daring appearance scantily clad in her now familiar mink stole, which had created a landslide write-in vote during the preliminary balloting. The crowd pleaser turned out to be a crowd teaser, as Miss LF's identity was unmasked as Junior Class president Dichter in-the-flesh! Miss Frelove was disqualified immediately on ethical grounds.

SS REGULATIONS

We would like to correct the definition of a full-time student in the second year for purposes of certification to the Selective Service System.

A second-year student, not taking ROTC, is considered as full-time with a minimum of 42 units each term. This change reflects the fact that ROTC is now elective, and that the second-year course schedules have not been allowed to increase.

A first-year student, not taking ROTC, is considered full-time with at least 39 units, as always.

Sophomores Easily Win Boat Race Prizes But Are Overpowered By Frosh Strategy In Other Events

by CARL V. SWANSON '60

Frosh Boat Builders Attack Own Officers

In an open letter to the Freshman Class, three members of the freshman boat committee who worked on the "decoy" metal boat have condemned Larry Pitts, '62 president, for the way in which he "used" them.

Having stated in the letter that the move by the high command of the class in not informing the workers on the ill-fated boat that their work was all in vain, the writers commented in an interview that they felt that "the decision to construct the wooden boat was a panic move on the part of the class president, one which demonstrated his complete inability to lead the freshmen."

The greatest complaint concerned the night before Field Day when the writers complained that they were "conned" into working through the night on the construction of a boat that had no significance.

After stating the bulk of their case in a manner that would have softened even the heart of Dicken's "Scrooge", the three concluded with: "We feel that Larry Pitts, president of the class, is responsible for this great injustice, since he had full knowledge of the wooden boat. We also feel that he no longer deserves the respect of the class and, consequently, that he should issue a public apology and his resignation so that he can make way for a person with common sense and decency."

Although it had been requested that the letter not be revealed to Pitts before its actual publication in order that it would be "to him as big a surprise as his action was" to the writers. The Tech, acting on the assumption that more good—and less harm—would come of the matter if the prexy

(Continued on page 3)

Rivkin Reviews Long-Range Plans Of Institute at Incomm Meeting

Mr. Malcolm Rivkin, Institute Long Range Planning Officer, recently indicated to Incomm what the future physical plant of MIT may look like. The principle problem underlying all decisions is the difficulty of acquiring new land.

The Long Range Planning Committee has a twofold function as described by Mr. Rivkin: to work out a 20-30 year program, and to work with the Boston-Cambridge community. He stated that MIT has no definitely predictable sources of income and, therefore, must use a flexible program for expansion.

Parking Problem Solutions

Several solutions to the parking problem were presented. The 1800 parking spaces now available will have to be greatly increased to meet new demands in the future, requiring the purchase of about 25 acres of land. The prohibitive cost of land (\$350,000 to \$400,000 per acre) makes the construction of a two story garage the most feasible answer. Finances for the structure would probably result from a \$30 to \$40 per annum parking charge per car. Note was made that it would probably be impossible for MIT to foot the approximately \$600,000 bill, and that a \$1.50 per car per day parking rate would be prohibitive.

Mr. Rivkin stated that the "question of university responsibility for student and faculty parking" arose. "MIT is one of the few urban institutions that has no parking charge," he added. Westgate will not be used for parking but a fringe parking system may be employed. This system would entail parking facilities at a sizeable distance (1/4 to 1/2 mile) from campus with a shuttle service between.

Westgate Plans

Plans for the use of the Westgate land include the construction of fraternities, dormitories, a graduate center, and academic or athletic centers as possibilities. Present athletic field space will probably be increased. The size of dormitories would run about 200 man units. Mr. Rivkin stated regarding fraternities that "personally I do not feel that 40 man units are feasible."

Student Union

The Student Union is high on the priority list. The business section could be built sooner than the student activities part because of commercial financing for the former.

A plan to relocate the entire MIT campus is impossible because the \$49,000,000 worth of present buildings would cost \$100,000,000 to reduplicate.

Particle Research Outlined At MIT Alumni Conference

The standard of living in the United States is far better than it was less than half a century ago, because we have learned to utilize energy more efficiently, Dean George R. Harrison told the MIT Regional Conference at Albuquerque, New Mexico, Saturday.

The MIT Dean told many alumni from the southwest area that one of the most important research projects concerning energy is being carried on at Volcano Ranch, only 15 miles from Albuquerque.

"This group has discovered cosmic rays which have energy ranges of one to ten million, million, million electron volts," the Dean revealed.

At the site near Albuquerque, the MIT scientists have set up twenty stations on a 2500 acre range to detect the impact of incoming cosmic rays. By studying the distribution and time of arrival of these particles, Professor Rossi and his colleagues are able to measure the direction from which the cosmic ray has come into the earth's atmosphere, which is important in determining the origin of the particles.

"As a matter of fact," he said, "if one could stake out a claim of desert land twenty miles long and ten miles wide, and could capture all of the sunlight that falls on this area and turn it with 100% efficiency into the forms in which we now use energy, all of the energy requirements of the

(Continued on page 6)

The nature of the day immediately became evident as the sophomore boat hove into view before the Boat Race. Towed by a launch it skimmed over the Charles, its long, slender bottom leaving almost no wake. A graceful boat, its gray length complementing the well made, multicolored flag flipping atop the mast, offered an anguishing contrast to the freshman boat—a double row of rusted, 55-gallon oil drums, torn in half and welded together. It has been said that a sophomore calculated that each member of the Freshman crew would have to weigh seventy-five pounds if this boat were to float.

Apparently a freshman also calculated this, as a B & P pickup truck swung onto the bank of the Charles opposite Smith House where the race was to be held, sporting an unpainted box-like thing which was the official freshman entry. Chortling with glee at having outsmarted the Class of '61 with their tin can decoy, the frosh launched their barge. No one can be found who saw the look of triumph upon that exemplary freshman, spirited and dedicated, who reportedly had spent the thirteen hours before the launching welding the tin cans together. Proving that their tin boat, while perhaps ugly, did float, the freshman launched the craft before the horrified eyes of Officer Incurelli, the driver of the MDC launch, whose primary duty is pulling people from the river.

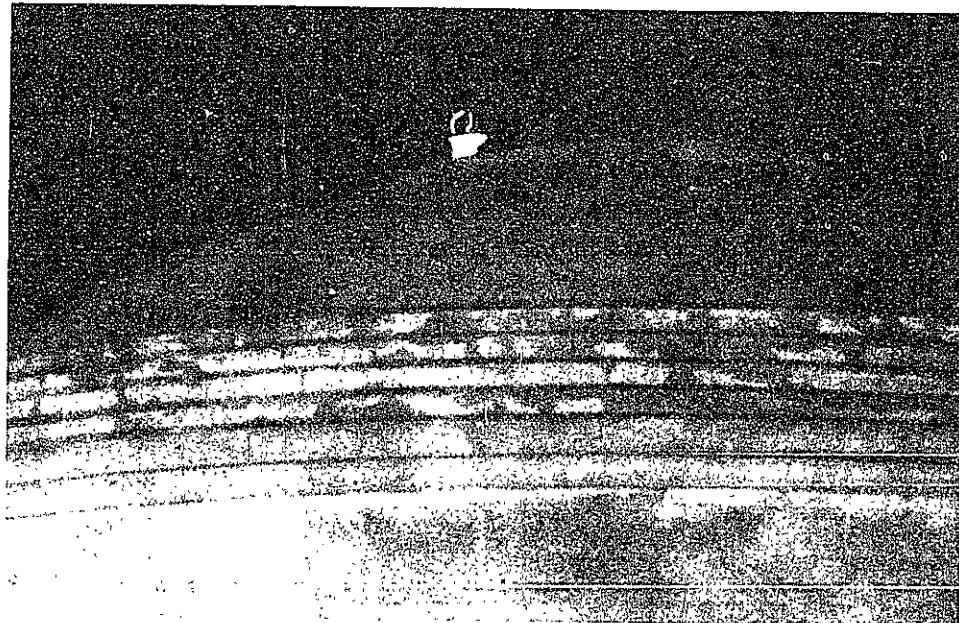
Lone Soph Victory

In the traditional crew start, (reports from a usually reliable source tell us no bodies turned in graves) the race began, heading toward the B.U. bridge. While the frosh boat ploughed through the water, the rudderless, mostly crew manned '61 boat, adding disgrace to defeat, described a sine wave despite the futile efforts of its coxswain. While both the press boat and a little black and white dog crossed the finish line before the soph boat, '61 received fifteen points for the win and ten additional points for having built the better appearing boat. However, ten of the points were deducted for previous illegal "espionage" attempts.

Musing, a freshman was overheard comparing their entry to George Washington crossing the Delaware, ragged but proud, against all odds. A spectator remarked that the freshman boat and crew were a perfect example of the antics of cavemen first

(Continued on page 6)

Expansion Symbol?



Possibly symbolizing the Institute's continual expansion program into untended areas, this "fixture" perched haughtily upon the Great Dome last weekend, silently raising its "arms" to the masses below.

The Tech

VOL. LXXVIII November 11, 1958 No. 42

Entered as second class matter at the post office at Boston, Massachusetts. Published every Tuesday and Friday during the college year, except college vacations, by THE TECH—Walker Memorial, Cambridge 39, Mass. Telephones TRowbridge 6-5855-6 or UNIVERSITY 4-6900, Ext. 2731. Twenty-four hour answering service: TR 6-5855.

Stephen M. Samuels '59	Chairman
John J. McElroy '59	Managing Editor
Kenneth F. Reinschmidt '60	Business Manager
Philip E. Beach '59	Editor
Glenn W. Zeiders '59	News Director
David W. Packer '59	Sports Director
John E. Stevenson '60	Associate Managing Editor
Alfred G. F. Kniazeh '59	Associate Managing Editor
Maria A. Moody '61	Circulation Manager
Peter M. Silverberg '60	Treasurer
Raymond J. Waldmann '60	Treasurer
Jon P. Wigert '60	Associate Editor
William F. Burke '59	Associate News Editor
Abraham Feinberg '60	Associate Sports Editor
John R. B. Disbrow, Jr. '61	Assistant Sports Editor

F. Thomas Bond, Jr. '58	Ralph E. Manchester, Jr. '58
William G. Daly, Jr. '58	F. Helmut Weymar '58
Murray R. Kohlman '58	

Gene W. Ruoff '61	MANAGING BOARD
Dennis E. Kelly '60	BUSINESS BOARD
	Robert A. Solem '61

M. Dixon Browder '59	EDITORIAL BOARD
Carl V. Swanson, Jr. '60	Allen C. Langford '58
Eric S. Langford '59	Henry Okun '60

John E. Arens '61	NEWS BOARD
-------------------	------------

Charles Weller '62	STAFF CANDIDATES
Jim Kistler '62	Vincent Giambalvo '62
Bostwick Wyman '62	John Werkheiser '62
Ted Zehnpiennis '62	Robert Johnson '62
John Carraway '62	Carl Wunsch '62
Herb Taylor '62	Archie Thomas '62
Steve Levy '62	Tom Brydges '62
Michael Remler '62	Jack Blum '62
George Hippisley '62	Bernie Herschberg '62
R. H. Kunz '62	Woods Halley '62
Dennis E. Cook '62	John Byon '62
Michael M. Gold '62	Jean Pierre Frankenhuis '61
	Cy Todd '62

The Board of Directors of THE TECH is pleased to announce the appointment of Philip E. Beach, Jr. '59 of Delta Kappa Epsilon and Rye, New York, to the Board as Editor.

reviews

Basie Rides Again

Feeling the power and excitement of the Count Basie band in full flight can be an exhilarating experience. The subtle guitar-playing of Freddie Greene is the nucleus of a pulsating rhythm section. The shouting brass ensembles, the moaning saxophone passages, and the crisp, lyrical solos lend an effect of joy and worldliness to the proceedings.

For the Basie oriented listener, the concert at Rockwell Cage Saturday night was both satisfying and disappointing. Although the performance was executed with accustomed musicianship and professionalism, it was uninspired due to a rude, and, except for brief flashes of enthusiasm for the commercial exhibitions of the band, unresponsive audience. (After the concert, vocalist Joe Williams felt that the audience was enthusiastic but boorish; twice the Count was visibly annoyed with a group near the stage that sang some inappropriate strains from *Handel's Messiah*. A roll of toilet paper was thrown onto the stage, and the stage was constantly overrun with autograph seekers and several members of the J.P. committee who made unintelligible remarks into the microphone.)

With the aforementioned handicaps, the Basie gang tip-toed and trampled over some thirty ballads and blues, nearly a third of which were given over to Joe Williams. Joe sang with both blues-bawling and pop-singing styles into the lone microphone on the stage which was connected to a set of speakers hung from the roof of the cage. The effect was one of the band playing on the stage with the singer suspended from the rafters. The "brass-answering the reeds" backing of the band on *Tender Trap*, and *The Comeback*, the interplay between a stone-faced Joe Williams and alto-saxist Frank Wess on *Every Day*, Joe Newman's trumpet introductions, Eddie Jones' rock-solid bass on *Smack Dab in the Middle*, and Williams' lyricism on *Goin' to Chicago*, were the highlights of the singer's appearance.

The gentle, easy swinging style of the Basie band was very effective on the ballads and medium tempo blues. *Spring is Here* and *Baby, Baby all the Time* were vehicles for Charley Fowlkus' baritone and Henry Coker's trombone; Wendell Cully's trumpet sound gently floated down from the rafters as the band glided through Neal Hefti's delicate *Lil' Darlin'*; Joe Newman's effortless solo booted the band along in a fluent version of *Indian Summer*. At a medium tempo, Freddie Greene's maracas gave impetus to the muted brass and solos by Thad Jones (trumpet) and Frank Foster (tenor); Greene's *Corner Pocket* featured a softly stomping solo by Basie himself; Frank Wess' driving flute solo was framed by an arrangement which zig-zagged from a guitar-bass duet to a muted brass ensemble to Wess to Sonny Payne's brush solo to the saxophone section back to brass and drums.

The bruising, shouting Basie style showed up in *Whirlybird* as Billy Mitchell (tenor) delivered a charging solo sparked by raucous shouts from the trumpet section. Al Gray (trombone) was heard in a fast staccato style which resembled a B-29 strafing an air field. *Blee Blop Blues* galloped faster than Faubus through Harlem with scorching solos by Mitchell and Newman. Sonny Payne was presented a screeching *Old Man River* as a vehicle for his drumming which was at first musical, but then developed into a wierd ritual of bouncing the sticks off the drums.

Fifteen minutes after the concert ended to the strains of Basie's *One O'Clock Jump*, the band's bus headed across the Harvard Bridge. The happy feeling which usually follows a Basie concert was missing. For those who enjoyed any part of the performance, another listening is recommended. The Basie band deserves it.

MYER KUTZ '59

Dr. Faustus

Anyone who wishes to present a show has a hard job on his hands: choice of play, scenery designs, light designs, costume design, cast, direction, and production. When the same person meets two other dependent factors like the relatively restrained choice of talent and the undoubtedly poor construction of the Little Theater, it is a matter of great courage to produce a comedy like *The Magical History of Doctor Faustus*, as the Community Players are this year.

The plot itself is of least importance, bringing nothing new to the ideas already developed by Marlowe, or more contemporary authors. The old theme of the man selling his soul to the Devil for twenty years of power and regretting it as the time passes is too much of an opera nowadays to awaken any interest in the audiences of the twentieth century who are more interested in sexual relationships among members of the same family, or in complexes discovered by Freud and staged by Tennessee Williams.

There was very little left to the author, George Hitchcock, but to introduce a brilliant dialogue or a witty comment on the whole idea. Neither is done. The dialogue is, nonetheless, amusing and entertains for two hours, which, afterall, is the whole purpose of the theater, or at the very least, of the comedy.

Some will wonder about the nature of our comment on the difficulty of setting the play. This is exactly the most striking success of the show. The first part of the first act makes use of the "orchestra" in a sober but interesting way. The second part of this act is set on the stage and depicts the laboratory of Doctor Faustus; and Paul Bromby made wonders with the few lights he usually has at his disposal.

The second act is a wild attempt to produce a farce in its broader sense, turning to seriousness at the very end.

It is without any doubt the third act that we enjoyed the most, not by the lines, not by the comic, but by the really splendid attempt to bring to us an example of the Commedia Dell'Arte of the pantomime. It is true that this attempt is not pure, for the actors to say perfectly studied lines which is contrary to the history of that particular expression of the art. But the colors, the lights, and the blocking, as well as the still-positions of the actors when required, prove the ability of John Gilland, the director of the play.

The fourth act is, of course, the sad end of Doctor Faustus.

Duke Ludwig is played by a young beginner, Dick Bogan, and we must say he is still a little shy on his movements. But this is a minor point, and he gives us a good performance.

The Doctor of Medicine, Alan Horshdorfer (true name in true life), is very well done, and we wish some of the cast would learn a little from him on "how to feel at ease on a stage." Though his gestures are very exaggerated, they never tire the spectator, for this is supposed to be a farce, and funny too, for those who played in it and didn't know.

Faustus, played by Abe Bers, is very unsure of himself in the first two acts, but his performance in the fourth act along with a very difficult speech perfectly felt and acted proves that he just needs a little warming.

A particular mention must be made to Thelma Gilland as Old Man Noah, and to Jack Rosenfeld (once more, yes) as Ezekial. Undoubtedly Jack Rosenfeld is an actor.

Theatrically speaking Professor Greene played his part perfectly straight as Mephistopheles or the Cardinal; no special mention should be given. However as The Player in that superb scene of the Commedia Dell'Arte, Professor Greene was very good, adding to what we consider was the best part of the show and possibly one of the best worked scenes in our MIT amateur theater.

The director, as mentioned before, is our well known John Gilland, and he did a good job in spite of the difficulties which include a very weak financial situation.

Faustus will also be presented next Friday, Saturday, and Sunday. Paul Bromby on the light designing should be enough to take you to the show.

JEAN PIERRE FRANKENHUIS, '61

BRATTLE THEATRE
Harvard Square
Thru Saturday
'MADEMOISELLE STRIPTEASE'
Brigitte Bardot meets Balzac

2 ALL-TIME CHAMPIONS!
CARY GRANT
in FRANK CAPRA'S
"ARSENIC
AND
OLD LACE"
PLUS
DANNY KAYE
"THE INSPECTOR GENERAL"
KENMORE
NEAR
KENMORE SQ.
KE 6-0777

A.S.C.E. SEMINAR
Movie
"THE FALL OF THE BRIDGE
AT TACOMA NARROWS"
Speaker: PROF. J. M. BIGGS
Thursday, November 13
4:00, P.M. Room 1-390
Refreshments Served

Bradford Hotel
Friday, Nov. 14
CONCERT-DANCE 9 to 1 a.m.
Adv. Tickets \$1.85—Filene's
**COUNT
BASIE**

G L. FROST CO., INC.
AUTOMOBILE BODY REPAIRING & REFINISHING
E. W. PERKINS
Tel. EL 4-9100
31 LANSDOWNE STREET
CAMBRIDGE, MASS.

**On Campus** with
Max Shulman
(By the Author of "Rally Round the Flag, Boys!" and
"Barefoot Boy with Cheek.")

ANYONE FOR FOOTBALL?

When Pancho Sigafos, sophomore, pale and sensitive, first saw Willa Ludowic, freshman, lithe as a hazel wand and rosy as the dawn, he hemmed not; neither did he haw. "I adore you," he said without preliminary.

"Thanks, hey," said Willa, flinging her apron over her face modestly. "What position do you play?"

"Position?" said Pancho, looking at her askance. (The askance is a ligament just behind the ear.)

"On the football team," said Willa.

"Football!" sneered Pancho, his young lip curling. "Football is violence, and violence is the death of the mind. I am not a football player. I am a poet!"

"So long, buster," said Willa.

"Wait!" cried Pancho, clutching her damask forearm.

She placed a foot on his pelvis and wrenched herself free. "I only go with football players," she said, and walked, shimmering, into the gathering dusk.



Pancho went to his room and lit a cigarette and pondered his dread dilemma. What kind of cigarette did Pancho light? Why, Philip Morris, of corris!

Philip Morris is always welcome, but never more than when you are sore beset. When a fellow needs a friend, when the heart is dull and the blood runs like sorghum, then, then above all, is the time for the mildness, the serenity, that only Philip Morris can supply.

Pancho Sigafos, his broken psyche welded, his fevered brow cooled, his synapses restored, after smoking a fine Philip Morris, came to a decision. Though he was a bit small for football (an even four feet) and somewhat overweight (427 pounds), he tried out for the team—and tried out with such grit and gumption that he made it.

Pancho's college opened the season against the Manhattan School of Mines, always a mettlesome foe, but strengthened this year by four exchange students from Gibraltar who had been suckled by she-apes. By the middle of the second quarter the Miners had wrought such havoc upon Pancho's team that there was nobody left on the bench but Pancho. And when the quarterback was sent to the infirmary with his head driven straight down into his esophagus, the coach had no-choice but to put Pancho in.

Pancho's teammates were not conspicuously cheered as the little fellow took his place in the huddle.

"Gentleman," said Pancho, "some of you may regard poetry as sissy stuff, but now in our most trying hour, let us hark to these words from *Paradise Lost*: 'All is not lost; the unconquerable will and study of revenge, immortal hate, and courage never to submit or yield!'"

So stirred was Pancho's team by this fiery exhortation that they threw themselves into the fray with utter abandon. As a consequence, the entire squad was hospitalized before the half. The college was forced to drop football. Willa Ludowic, not having any football players to choose from, took up with Pancho and soon discovered the beauty of his soul. Today they are seen everywhere—dancing, holding hands, nuzzling, smoking.

Smoking what? Philip Morris, of corris!

And for you filter fanciers, the makers of Philip Morris give you a lot to like in the sensational Marlboro—filter, flavor, pack or box. Marlboro joins Philip Morris in bringing you this column throughout the school year.

An Invitation to Engineering and Physical Science Majors

Lockheed Missile Systems Division is systems manager for such major, long-term projects as the Navy Polaris IRBM; Air Force Earth Satellite, Q-5, X-7; Amy Kingfisher and other important research and development programs. The division was honored at the first National Missile Industry Conference as "the organization that contributed most in the past year to the development of the art of missiles and astronautics.

Headquarters for the Division are located at Sunnyvale, California, on the San Francisco Peninsula. Research and Development facilities are in the Stanford Industrial Park in nearby Palo Alto. Other Division locations are at Van Nuys, Santa Cruz, and Santa Maria, California; Cape Canaveral, Florida; Alamogordo, New Mexico; and Hawaii. Together, they provide complete facilities with the latest scientific and technical equipment, including one of the most advanced computing centers in the nation. Employee benefits are among the best in the industry.

For those who qualify and desire to continue their education, the Graduate Study Program enables them to obtain advanced degrees at the University of California at Berkeley, or Stanford University, while employed in their chosen fields at Lockheed.

Our representative, Mr. Vincent Iannoli, will be available on campus for interviews on November 13 and 14. For appointment, please see your Placement Director now.

LOCKHEED / Missile Systems Division

Sunnyvale, Palo Alto, Van Nuys, Santa Cruz, Vandenberg AFB, California
Cape Canaveral, Florida Alamogordo, New Mexico

BELL TELEPHONE SYSTEM

Opportunities for Majors

in

Physical Sciences • Engineering



Representatives will be on the Campus
Wednesday, Thursday and Friday,
November 12, 13 and 14, 1958.

BELL TELEPHONE LABORATORIES

Research and development in electrical communications, electronics, microwaves, acoustics, switching systems for the Bell System, and national defense projects.

OPERATING TELEPHONE COMPANIES (Nov. 13, 14 only)

Engineering, construction, operation and maintenance of communication facilities. The following companies will be represented on the campus:

New England Telephone and Telegraph Company
New York Telephone Company
The Southern New England Telephone Company
Applicants will be interviewed for other regional operating companies in the United States and Canada.

WESTERN ELECTRIC COMPANY (Nov. 13, 14 only)

Manufacturing, purchasing, installation and distribution of equipment and supplies for the Bell System and national defense projects.

SANDIA CORPORATION

Research and development in electronics, mechanics, physics, and mathematics in nuclear weapon ordnance.

Please make arrangements for interviews
through your Placement Office.

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

Evans Tests Radioactive People; Predicted Maximum Dose High

Professor Robley Evans of the MIT Radioactivity Center received a sizeable turnout to his call for radioactivated people. Among those who responded to the advertisement placed on the first page of the New York Times were two who had drank many times the normal "safe dose" of radium.

One, a salesman, drank a radium tonic to pep him up when he felt run down. As was common practice at the time, his doctor did not oppose using the tonic and allowed him to drink it. He bought 100 bottles of tonic but luckily was not able to buy more because the manufacturing company went out of business. Now, thirty years later, when he was tested for radioactivity by Professor Evans, he was still found to possess seven times the normal "safe dose" for man.

1000 Times Safe Dose

Another case, a businessman, took tonic forty years ago but stopped the treatment when it gave him no relief. Later his joints began to creak and his bones showed odd deposits. Professor Evans found twenty five times the normal "safe amount" still in his body and figures that he originally consumed 1000 times the safe dose.

These two people were especially fortunate in surviving without mishap because other tonic drinkers lost limbs or even their lives as a result of the effects of the tonic. Those who did

survive, however, are in good health now and none of them have leukemia.

Standard May Be Too Low

Dr. Evans perhaps was overconservative in 1941 when he set the "maximum permissible body burden" of radium at one ten millionth of a gram. All subsequent radioactivity doses have been based on the 1941 standard which maybe was too low. If this is the case, much of the recent scare about fallout can be ignored.

FROSH BOAT

(Continued from page 1)

was given a chance to explain his position at the same time, Pitts was interviewed.

Pitts explained the move was completely a security measure—and a successful one at that—affected after the several "invasions" by the sophomores: "The fact that the sophs knew nothing of the wood craft and were confident of their knowledge of the metal boat made the entry of the wooden craft speak well for the ingenuity of the Freshman Class. As one soph put it, "The Freshman Class rather scoffed at the Class of '61 by entering the wooden boat!" He went on to add that, only by continued work on the decoy, the effect could have been maintained.

SPORTSTER

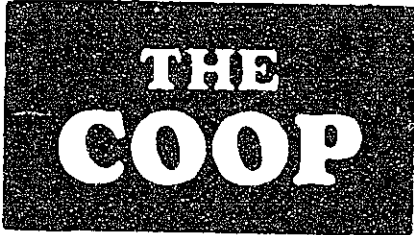


Shell—Highly mercerized all-cotton sanforized Gatineau gabardine.

Lining—Deep woven Orlon pile by Timme.

Collar—Heavy Orlon pile by Timme, zipper closure to top; also with detachable button-on hood.

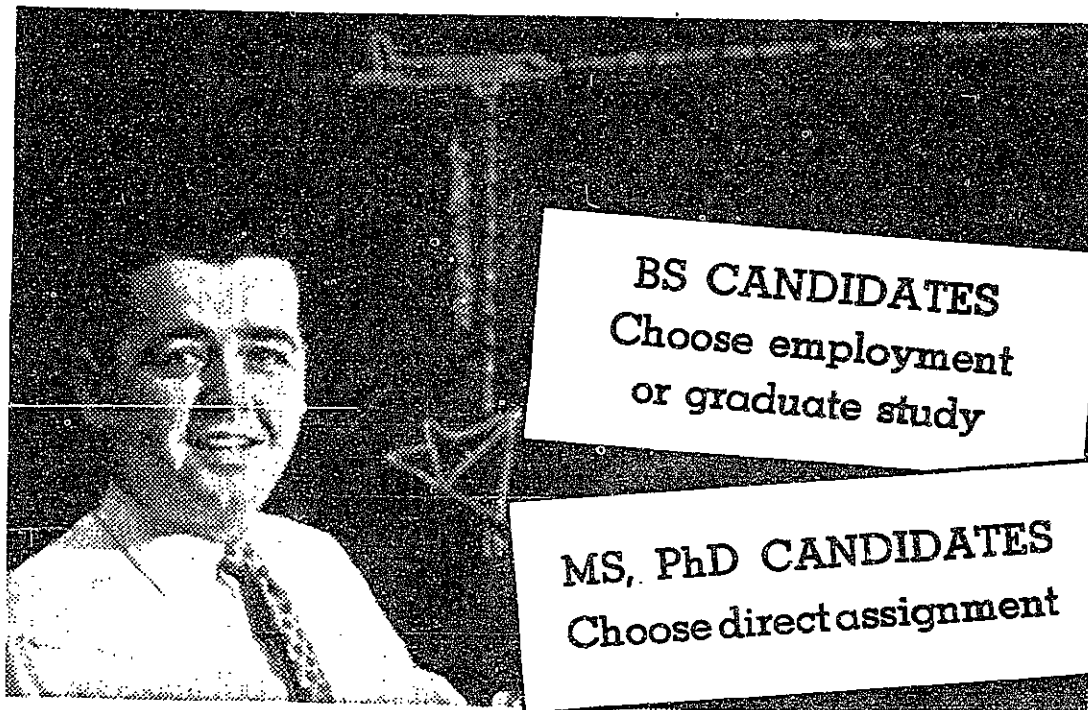
- Features—• Washable
• Sleeve tabs
• Two-way zipper
• Knitted inner wind cuffs
• Two lower hacking pockets with flaps, and two upper muff pockets
• Open bottom



1958-59 JUNIOR PROM A



FIELD DAY WEEKEND



BS CANDIDATES
Choose employment
or graduate study

MS, PhD CANDIDATES
Choose direct assignment

... As an RCA Engineer

Receive your MS in Electrical Engineering, Mechanical Engineering or Physics at RCA's expense, through the RCA Graduate Study Program. At the same time, you're beginning your RCA career as an engineer on a fully professional level, getting a head start in the field you prefer. RCA pays the full cost of your tuition, fees and approved texts while you take graduate study part time at the University of Pennsylvania or Rutgers University. Or, you may prefer a different path ahead . . . RCA Design and Development Specialized Training. Here is another of RCA's programs for careers, in which you begin by working full-time on planned technical assign-

ments. Experienced engineers and interested management guide your progress. You may receive assignments in design and development of radar, airborne electronics, computers, missile electronics, television, radio and other equipment fields, as well as in Electron Tubes, Semiconductors and Components. MS, PhD Candidates are eligible for direct assignments in the above mentioned fields.

There's a lot more that's extremely interesting about an RCA engineering career. You should have these facts to make a wise decision about your future. Get them in person very soon when an RCA engineering management representative arrives on campus—

November 19 and 20, 1958

Right now, though, see your placement officer. Get squared away on a specific time for your interview. And get your copies of the brochures that also help to fill you in on the RCA picture. If you're tied up when RCA's representative is here, send a resume to:

Mr. Robert Haklisch, Manager
College Relations, Dept. CR-11
Radio Corporation of America
Camden 2, New Jersey



Tomorrow is here today
at RCA



RADIO CORPORATION of AMERICA

PLAYBOY

TOPS THEM ALL!

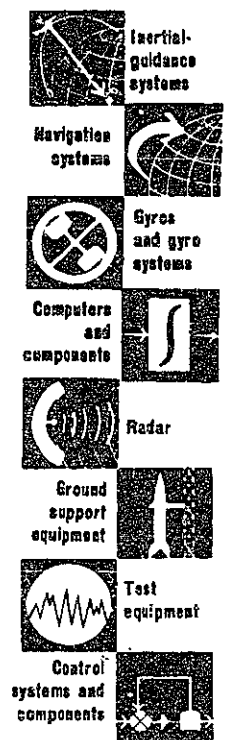
Contact Glenn Zeiders Ext. 3206

Senior engineering students...

Kearfott will be on the M. I. T. campus

November 13, 1958

KEARFOTT CAPABILITIES INCLUDE:



interviewing for

ASSISTANT PROJECT ENGINEERS

Responsible training-program assignments offer varied experience, and a chance to select the work you prefer for long-range growth. For example, let's examine the present training of Larry Wood, class of '58:

Larry chose the Navigational Systems Laboratory for his initial assignment. Here, he is working on the inertial guidance system for the SUBROC missile; he selects components such as networks and gear trains, specifies parameters such as amplifier gain, and is studying possible alternates to the present system.

If Larry requests permanent assignment in this Lab, he will write design specifications, sketch originals, and supervise draftsmen in the preparation of final prints. He will coordinate the efforts of engineers from supporting groups, supervise technicians performing final systems tests and developing required supporting test equipment.

Larry is helping Kearfott grow, and he is growing with it. Similar opportunities exist for this year's EE and ME graduates. Please see your Placement Director for additional information and for an appointment.



Larry Wood, BSEE, University of Maine, June, 1958

Kearfott



Kearfott Company, Inc.
1500 Main Avenue, Clifton, N. J.
A subsidiary of General Precision Equipment Corporation

ALUMNI CONFERENCE

(Continued from page 1)

United States could be thereby satisfied."

"However," he continued, "the immediate indication is that some new physical discovery must be made if the conversion of solar energy is to be of economical importance in the near future. The energy is there—200,000 times as much as the world needs at present—comes to us from the sun—but we do not have good ways of condensing and using it."

FIELD DAY

(Continued from page 1)

discovering they could ride on water. Meanwhile Officer Lucaelli showed no concern for anthropology as he invoked the wrath of God, requesting several freshmen to remove their tincan craft from the Charles.

The members of the Class of '62, wild and untamed by the Institute, wallowed in their element, bared their teeth, and conquered the sophomores in both tug-of-war contests. As the two teams of twenty-five men each prepared for the first tug, on Briggs Field, several freshmen captured the '61 flag, and fled across the soccer field. After a bit of a scuffle the flag was found amidst six Field Day contestants each grabbing for the flag and at the same time slugging the other five. When it became apparent that the six were all sophomores, the flag was again hoisted upon the sophomores pole. The Class of '62 easily won both the team and the unlimited tugs in about ten seconds for each pull. These easy victories for the freshmen resulted from their superior strategy: they kept their derrieres close to the ground. A sophomore explained that they too knew this strategy but, upholding their dignity, refused to stoop so low.

The totem pole race followed with four teams from each class carrying a thirty foot decorated telephone pole 400 yards. The Class of '62 added ten points to the twenty points they had won in the two tugs-of-war as Beth Strong, the JP queen, judged their pole the better decorated. The Sophomores proved themselves gentlemen as they slowly but surely lost Field Day to the freshman. On the third lap the freshmen dropped their pole but '61 square shooters all the way, immediately dropped their pole. Resuming the race both teams ran abreast as they approached the finish line but the sophomores politely bowed to '62 dropping the pole while '62 fell to victory on the finish line winning fifteen more points for themselves. Despite the protests of several girls Beaver Key disqualified the little white dog that actually won the race, on the grounds that it had not actually carried a thirty-foot totem pole.

Cold Frosh Gloves

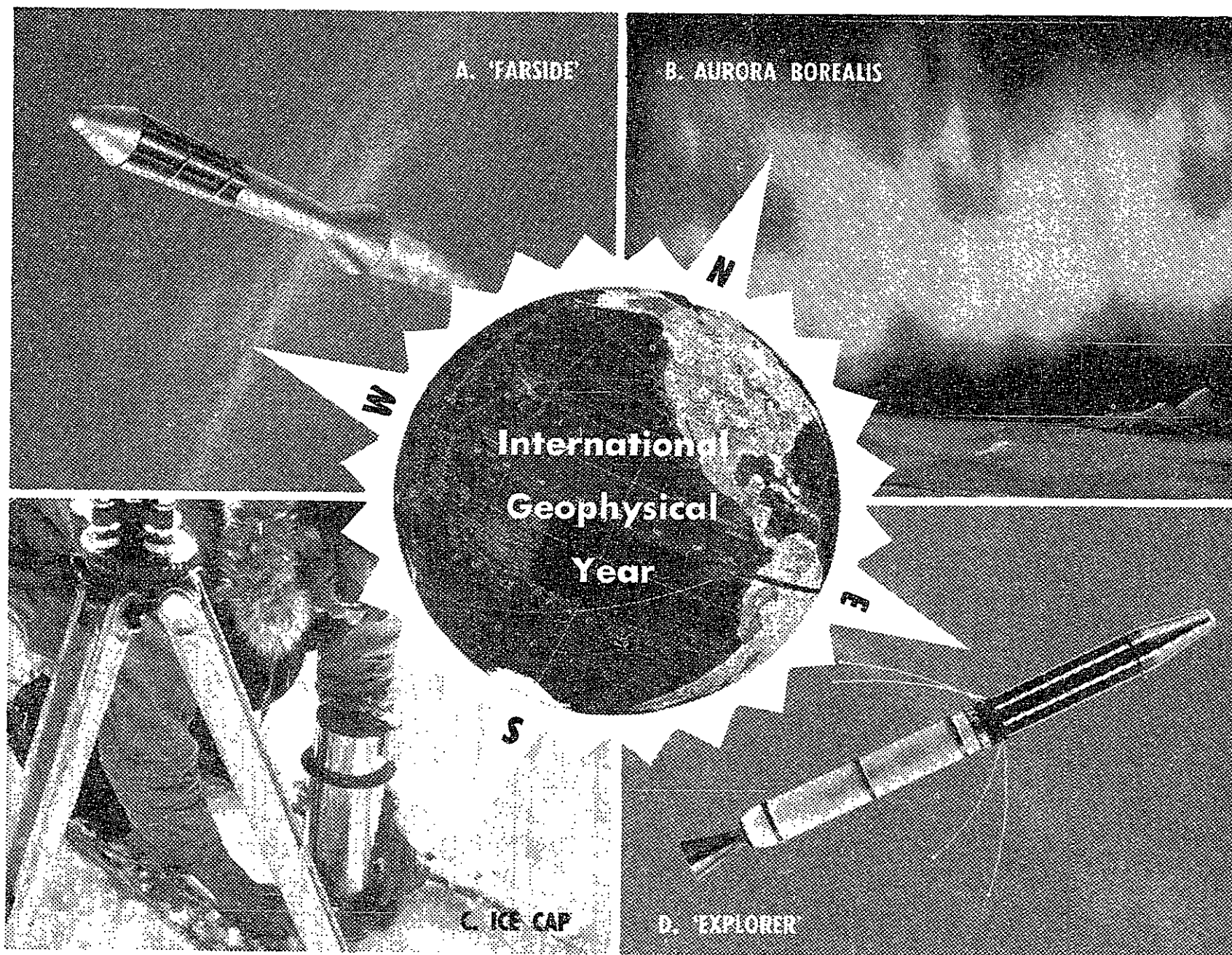
The featured and final event, the Glove Fight, finally began after distribution of the gloves and arousing of spirit: sophomores cheered, the freshmen screamed "Hate, hate, hate," and certain of the spectators giggled. As the starting gun cracked the freshman, gathering all their orange gloves, threw them into a 55 gallon drum which was partially buried in one corner of the field, and placed blocks of dry ice atop the gloves. This clever imaginative device—and the 100 to 150 freshmen guarding it—proved impenetrable to the sophomores who lost all their gloves.

'61 gathered all their gloves and smugly threw them into a heap upon which sophomores threw themselves and then wrapped gloves and bodies in a fishnet. Beaver Key had absolutely no trouble penetrating this defense. As soon as the cry that someone on the bottom of the pile was hurt came out, Beaver Key told the sophomore to get off their gloves to release the injured man. Seeing their opportunity the freshman decisively swept past the astonished sophomores and threw the blue '61 gloves into the hole around the net. The sophomores had no chance as they lost more and more of their gloves.

The Bare Truth

Feeling the sophomore disdain for their naivety and youth, the frosh set out to prove that the sophomore sophistication was merely a facade and that both freshman and sophomore are the same underneath. Taking to their task with zeal and determination, the freshmen ripped off many sophomore pants proving to the world their point. One casual freshman

(Continued on page 7)



exploring for a better world

AT THE FOUR CORNERS OF THE EARTH, more than 5000 scientists from 67 countries are joined in an all-out assault on the vast gaps in our knowledge of the universe. In, on and above the earth, studies are underway to learn more about how we can make better use of the planet we call home.

A. ENIWETOK, SOUTH PACIFIC. Four dozen tiny Texas Instruments components (diodes and transistors) rode more than 4000 miles out into space in Operation Farside.

B. NORTH POLE, ARCTIC. recti/riters, TI ink-writing rectilinear recording galvanometers, trace the flicker of the aurora borealis and measure the all-but-invisible polar airglow.

C. SOUTH POLE, ANTARCTIC. Texas Instruments seismic exploration systems plumb the depth of the polar ice cap... TI's famed Worden gravity meters weigh the earth beneath... recti/riter recorders warn scientific adventurers against deadly ice crevasses.

D. CAPE CANAVERAL, FLORIDA. TI transistors and diodes in the Jupiter C missile helped put the Explorers on their journeys... and United States satellites themselves use Texas Instruments transistors.

engineers, chemists, physicists... choose your future **SEMICONDUCTORS AND OTHER COMPONENTS.** Transistors, diodes, rectifiers, capacitors, resistors, transistor circuit

applications, test equipment, mechanization for the Semiconductor-Components division.

ELECTRONIC AND ELECTROMECHANICAL APPARATUS. Radar, infrared, sonar, magnetic detection; computers, timers, telemetering, intercom, optics, microwave systems; transformers, lenses for the Apparatus division.

BASIC AND APPLIED RESEARCH. MS and PhD level inquiring into data systems and earth sciences, solid state physics, materials, and devices; concentrating on semiconductors, electronic components and systems, military systems, data handling, geophysics at Central Research Laboratory.

come and grow with us

Hitch your wagon to the Texas Star... work at a plant within the city but away from downtown traffic... live within minutes of your work or your play—year around recreational, amusement and cultural activities. A Texas Instruments representative will be on the campus in a few days to give you more details. Please contact your placement office before—

NOVEMBER 13, 14



TEXAS INSTRUMENTS
INCORPORATED

6000 LEMMON AVENUE • DALLAS 9, TEXAS

Brian White Paces Hill and Dalers As Techmen Trounce Tufts 20-40

The varsity cross country team ended its dual meet season on a successful note last Friday as they smashed Tufts University 20-40 at Medford, taking seven of the first ten places. The frosh were downed 21-37 by the Jumbo yearlings.

Brian White '61 led the Tech attack, copping first place in 22:49 for the 4.4 mile course. Dante Oliver '60 followed in second spot in 23:17, with Bob Mullen '60 fourth in 24:07. Ed McCartney '60 and Paul Robertson '61 took sixth and seventh positions, respectively, in 24:13 and 24:54.

Roll Graham '60 finished eighth in 24:57 and Herb Grieves '61 tenth in 25:17 to complete the rout.

Steve Banks was front runner for the freshmen, capturing third spot in 15:56 for three miles. Rick Queeney followed in fourth place in 16:02. However the Tufts yearlings swept the next four places to clinch the meet, while Pete Rae, Steve Root, Stan Jensen, Larry Coppola, and Clark Frazier were 9th through 13th in that order.

The victory gives the varsity harriers a season slate of 3-5, with wins over Brandeis, Williams, and Tufts, and including a two-point loss to Northeastern and a four-point defeat

by Coast Guard the latter two in the same triangular meet. The frosh record stands at 1-4, with the lone win over the Coast Guard yearlings.

In addition, the top seven runners from each squad competed Monday afternoon in the New England Championship Meet at Franklin Park.

Tech in Dual Meet For Fowle Trophy

MIT will meet Coast Guard for the New England team racing Championship this Sunday since the field was only reduced to two last weekend at New London.

Saturday six teams met in double round robin competition challenging each of the other teams twice. During this time the Engineers dropped two to Coast Guard while the boys from New London lost three. Boston University, Harvard, and Bowdoin finished in that order in the first round that was to eliminate two teams.

Sunday afternoon the first team met the fourth and the second, the third in three out of five race contests. The Cardinal and Gray won three straight and Coast Guard took three of its first four to put the two teams in the finals. Though the trophy was supposed to be awarded this weekend, time ran out and the four out of seven finals will have to be held this Sunday at New London.

Frosh Captain

Stephan Banks '62, of Mercer Island, Washington, was recently elected captain of this year's freshman cross country team. An eager competitor, Steve was consistently one of the top runners on the squad.

A graduate of Mercer Island High School in his home town, Steve has been active in track since the eighth grade. Here at the Institute, he has been elected a freshman section leader, while he devotes his spare time to his favorite hobby sailing.

Soccer Team Ends 1958 Season; Upsets Dartmouth Squad

The varsity soccer team ended its 1958 season on a happy note by upsetting a powerful Dartmouth squad last Saturday at Hanover. Manny Hanna '60 drew first blood for the Cardinal and Gray by booting a low shot through a mass of Dartmouth Indians with two and one-half minutes gone in the second quarter. Midway in the third period "Cousin Billy" Jan Oordt '61 put MIT ahead 2-0 with a good kick from a difficult angle.

Near the end of the game, a Dartmouth player avoided a shut-out for his team by lacing the ball past Tech's goalie, thus narrowing the Engineers' lead to 2-1, the game's final score.

Especially outstanding for the Tech soccer team was the half back line of Jim Geers '61, Joseph Schutzman '61, and Derrick Chin '59.

At the conclusion of the 1958 season, the varsity soccer team's record stands at five victories, four losses, and two ties.

FIELD DAY

(Continued from page 6)
Dressed in coat and tie, brazenly ripped the pants from at least six sophomores. In their ardor the freshmen pares, emerging untouched himself. In their ardor the freshmen ripped off more pants than the Beaver they had towels. Unfortunately the lack of fig leaves on Briggs Field necessitated the immediate invention of some rather interesting costumes. Modesty and innocence reigned.

The Class of '61 protested the Glove Fight which was declared "no contest" by Beaver Key for two reasons (1) Beaver Key rather than the freshmen broke the sophomore defense and (2) the freshmen used dry ice to defend their gloves without consulting Beaver Key as the rules stated.

PAUL T. ROBERTSON
The Winter track season gets underway officially this Thursday, November 13th. With the first meet, with Boston College, just a month away, all those interested in any track or field event are urged to come out soon. Coaches Art Farnham and Al Sotir are available every afternoon at Briggs Field.

COMING NOVEMBER 17, 18

*Hughes announces campus interviews
for Electrical Engineers
and Physicists receiving B.S.,
M.S., or Ph.D. degrees.
Consult your placement office now
for an appointment.*

HUGHES

RESEARCH, DEVELOPMENT AND MANUFACTURING
Hughes Aircraft Company • Culver City, Los Angeles,
El Segundo and Fullerton, California
and Tucson, Arizona

IBM invites the 1959 Graduate
with Bachelor's or Master's Degree
to discuss career opportunities

Contact your college placement office
for an appointment for campus interviews

NOVEMBER 18, 1958

Career opportunities

If your degree major is in:

Research..... Physics • Mechanical •
Engineering Physics • Mathematics

Manufacturing..... Industrial • Electrical • Mechanical •
Mathematics • Physics

Product Development..... Physics • Mechanical • Electrical •
Engineering Physics • Mathematics

Some facts about IBM

IBM's phenomenal growth offers unlimited professional opportunities to highly qualified graduates. Company policies lay a firm groundwork for stimulating and rewarding careers in the areas listed above. At IBM, you will find respect for the individual . . . small-team operations . . . early recognition of merit . . . good financial reward . . . outstanding company-paid benefits . . . and many educational and training programs.

IBM's laboratories and manufacturing facilities are located in Endicott, Kingston, Owego, Poughkeepsie, Yorktown, N. Y.; Burlington, Vt.; San Jose, Calif.; Lexington, Ky.; and Rochester, Minn. Sales and service offices are located in 198 principal cities throughout the United States.

If you cannot attend the interviews, write or call the manager of the nearest IBM office:

IBM Corp.
363 Third Street
Cambridge, Mass.

IBM

INTERNATIONAL
BUSINESS MACHINES
CORPORATION

DATA PROCESSING • ELECTRIC TYPEWRITERS • MILITARY PRODUCTS
SPECIAL ENGINEERING PRODUCTS • SUPPLIES • TIME EQUIPMENT

Top men go to Texaco

a leader in the constantly expanding field of petroleum

BUILD A REWARDING CAREER for yourself with The Texas Company.

FIND OUT FIRST HAND the broad range of opportunities and benefits in the fields of your particular studies, made possible through TEXACO's nation-wide and world-wide scope of operations.

TEXACO'S REPRESENTATIVE will be interviewing on your campus soon, on the dates posted. *Sign up now.*

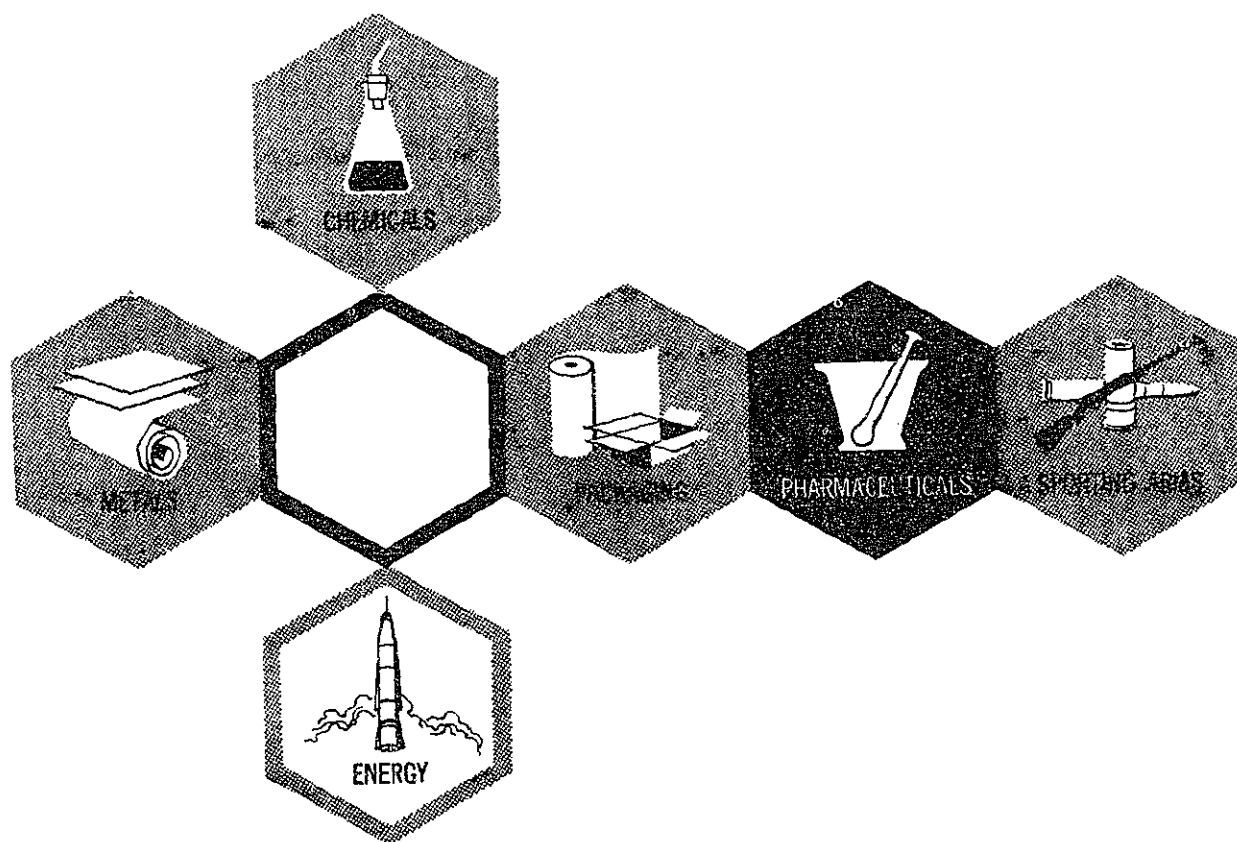
YOU WILL find it informative to see the booklet: "Opportunities with Texaco." This booklet is available in your placement office.

Your opportunity:

Research and Technical		Chemistry	M PhD	Refining	
Chem Eng	M PhD	Physics	M PhD	Chem Eng	B M Summer
Elec Eng	M PhD	Geophysics	M PhD	Civil Eng	B M
Mech Eng	M PhD	Mathematics	M PhD	Mech Eng	B M
Petro Eng	M PhD	Geology	PhD	Met Eng	B M

November 17

The Texas Company



DIVERSIFICATION

for
unlimited
opportunity

The interest of Olin Mathieson in the vital fields of chemicals, metals, packaging, pharmaceuticals and energy and in the sporting arms and ammunition industry promises the chemist, the chemical and the mechanical and metallurgical engineers a career that can progress along any one of many avenues just as rapidly as ability can be displayed. We would like to talk to you about your post-graduate plans. Include Olin Mathieson in your interview itinerary.

The Olin Mathieson representative will soon be on your campus. See your placement office for full details.

Interviews to be held on Nov. 21

OLIN MATHIESON 460 PARK AVE., NEW YORK 22, N. Y.

INTO THE AIR . . .

Anybody wishing to participate in a small membership flying club call Bill Burke, ext. 3217. A license is not required.

AS A STUDENT SERVICE, THE TECH offers its Classified Column for use by the MIT Community for the nominal charge of 10c per line, paid in advance. Classified advertising outside MIT: 20c per line. Address inquiries c/o Adv. Mgr., THE TECH, 024 Walker Memorial.

CHANCE OF A LIFETIME OFFER! Now you can have your very own adding machine. Be the first on your floor to be able to do labs electrically. Keep your budget straight the easy way. Have fun taking it apart to see how it works. And best of all use it as a base for your very own 704. To get your hands on this bargain call Pete Silverberg, Runkle 304 or TR 6-5699.

DRAMATIC SEMINAR

The ASCE presents a movie spectacular "The Fall of the Bridge at Tacoma Narrows" with additional narration by the MIT Structures Department, Thursday, November 13, 4:00, Room 1-390.

LEARN LANGUAGES—they open many careers. Russian-born woman teaches RUSSIAN by intense modern conversational method. Also FRENCH and GERMAN. TR 6-3771.

PRICES for FI too HI? No more! For savings up to 20% on new Hi-Fi components—delivered—contact: Anthony Gray, Goodale 311, EL 4-8168.

FOR SALE: One new Gretsch concert snare drum with stand. Cost \$100. Now only \$75. Call or see Karl Milde, 428 Memorial Drive, KI 7-0666.

"★★★★★ Extraordinary mystery!"

—N. Y. Daily News

A HAIR-RAISING CINEMATIC THRILLER!

Demoniac

...more diabolical than 'Diabolique'

with FRANÇOIS PERIER • MICHELLE PRESLE
JEANNE MOREAU • DIRECTED BY LUIS BUNUEL
FROM THE NOVEL BY G. BOULEAU-GERMAIN (L'ARABESQUE)

IMPORTANT: Patrons are earnestly requested to see the picture from the beginning. Please observe the Feature Time Schedule carefully.

CAPRI NOW **Beacon**

In Colby Sq. CO 7-2820 2 THEATRES \$4.00 Opp. Parker House - CH 7-6676

Cambridge Dance Studio

580 Massachusetts Avenue
Cambridge, Massachusetts

3 FREE PRIVATE DANCE LESSONS
with 10 HR Group Course \$7.50

No Contracts Necessary
Call or Write For
FREE DANCE CERTIFICATE

CAMBRIDGE DANCE STUDIO
580 MASS. AVE., CAMBRIDGE
At Central Sq.

UN 4-6868 1-10 P.M.
• 2 can learn for the price of 1

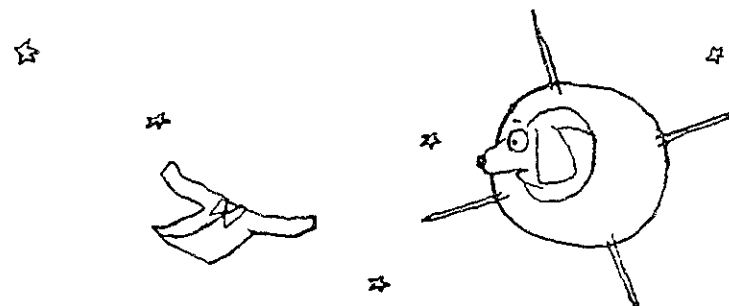
F & T RESTAURANT

DELICATESSEN and DINER

304-310 Main St., Cambridge

Open Daily from 6 a.m. to 12 p.m.

Closest Restaurant to Tech



Shirt Satellite Launched!

The first Shirt Satellite is finally a reality! Just yesterday, during their lunch hour, Van Heusen scientists launched a Van Heusen Century Shirt into the stratosphere. It's now circling the earth 180,000 miles up, in an orbit so large that a grown man couldn't walk it, even in a whole day! Traveling at the legal 35 miles per hour, it is expected that the Van Heusen Century Shirt Satellite will remain up there in the blue beyond for at least 1200 years. And, with luck, maybe 1201.

"But," you will ask, "what value will the Shirt Satellite have for science?" Just this, friend! It will further prove the immutable law that the soft collar on Van Heusen Century Shirts won't wrinkle . . . ever! You see, the slick Van Heusen physicists have attached an electronic Wrinkle-rieter to the collar of the Van Heusen Century

Shirt. This clever device will constantly send back electronic reports on the condition of the collar, so, for 1200 years, we earthlings will have absolute proof that the soft collar on Van Heusen Shirts won't wrinkle . . . ever. Should you ever have any doubts, just drop in to the Van Heusen office, and listen to the reports coming back from the Shirt Satellite.

One more thing—the Van Heusen Century Shirt Satellite will drop back to the earth in the spring of 3157 (possibly 3158) and you're all invited to the return party! If, in the meantime, you want to see the Van Heusen Century Shirt, you can at your campus haberdashery. He has them in 5 collar styles, in white, stripes and colors. \$4 & \$5. At better stores everywhere or write: Phillips-Van Heusen Corporation, 417 Fifth Ave., New York 16, N. Y.